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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/765,378	01/22/2001	Yukio Kuroiwa	Q62756	1049
	590 11/15/2002			
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3202			EXAMINER	
			KIM, AHSHIK	
			ART UNIT	PAPER NUMBER
			2876	
			DATE MAILED: 11/15/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

	Application No.	plicant(s)				
,	09/765,378	KUROIWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ahshik Kim	2876				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 09/1	9/02 (RCE) .					
2a)☐ This action is FINAL . 2b)⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) S Patent and Trademark Office	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 19, 2002 has been entered.

10 Amendment

2. Amendment filed on August 19, 2002 is entered. Accordingly, claims 1-5 remain for examination.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

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evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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3. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohno et al. (US 5,498,860) in view of Nakajima (US 5,408,531).

Ohno teaches a magnetic ticket/card as shown in figures 1A-4B (col. 3, lines 34+). Simplistic card reader is disclosed in figure 5, wherein the two magnetic read heads 32 and 34 are installed along the card moving path 37. A magnetic write head 33 is positioned in between the two read heads (col. 6, lines 5+). Information such as the maximum amount, the balance, etc., can be stored on the magnetic layer (col. 5, lines 17+). The balance processing or other user-defined processing occurs as follows: the first reader 32 reads the magnetic information, CPU/processing unit updates the balance, and the write head write the updated information back on the magnetic layer, the second reader 34 reads the information back and compare it against the valued in CPU for collation/verification. Obviously, the sequence of read/write/read is performed at one swipe or movement of the card.

Ohno fails to specifically teach or fairly suggest of error checking utilizing parity bits.

Although Ohno is also silent on demodulation and modulation of data, a magnetic data on the recording layer 21 have to be converted to proper electric signal, and modulated/demodulated to acceptable range of voltage.

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Nakajima teaches a magnetic/optical card reader 21 (col. 1, lines 15-20) comprising a modulator 42, a demodulator 43 (col. 11, lines 22+), and error checking utilizing parity bits where each byte of the data is checked and corrected (col. 4, 59- col. 5 line 38+).

In view of Nakajima's teaching, it would have been obvious to an ordinary skill in the art at the time the invention was made to employ notoriously well-known error checking mechanism utilizing parity bits to the teachings of Miyashita in order to reduce errors read from the magnetic card reader. Moreover, the information carried in such cards often is a financial information such as account balance, remaining tokens, etc. etc. Keeping and maintaining the correct information would save losses caused by errors. Users/customers can also be avoided from those error-caused hassles. Accordingly, such modification would have been an obvious extension as taught by Miyashita, well within the ordinary skill in the art, and therefore an obvious expedient.

Response to Arguments

4. In the amendment filed August 19, 2002, the Applicant argues and traverses that the amended claim is patentable over Miyashita (US 5,397,883) in view of Ohno et al. (US 5,424,523) and Nakajima (US 5,408,53), since the amended claim now recites that steps of reading, modulating, demodulating, and error-checking are performed in a single movement of the magnetic card. Accordingly, the amended claim required additional search and consideration. This Office Action is in response to the merits presented in the amended claim and remarks.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's I. disclosure: Fukasawa (US 5,483,050); Oshiba (US 5,448,048); Urata et al. (US 5,455,408) magnetic/optical readers with modulation/demodulation.
- Any inquiry concerning this communication or earlier communications from the 5 Π. examiner should be directed to Ahshik Kim whose telephone number is (703)305-5203. The examiner can normally be reached between the hours of 6:00AM to 3:00PM Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee, can be reached on (703) 305-3503. The fax number directly to the 10 Examiner is (703) 746-4782. The fax phone number for this Group is (703)308-7722, (703)308-7724, or (703)308-7382.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [ahshik.kim@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

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Ahshik Kim Patent Examiner Art Unit 2876

November 6, 2002 30

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